

AMENDMENTS TO THE CLAIMS

These claims replace all prior versions, and listings, of claims in the application:

1.(currently amended): A communication data relay system for relaying between two or more domains each configured by one or more networks, a relay source domain having routing information to a relay destination domain, comprising:

two or more interface modules for accessing said networks;

a domain definition module for defining ~~the~~ a domain configured by said one or more networks, said domain definition module storing an interface identifier for identifying an interface module and a domain identifier for identifying said domain corresponding to said interface module identified by said interface identifier;

an inter-domain communication definition module for defining ~~a specification whether communication between the domains is permitted or not~~ connectability between said two or more domains defined by said domain definition module, said connectability based on a combination of the following parameters: a source/destination domain identifier, an inter-domain communicability field, and a translation rule;

a routing information storage module for storing domain routing information corresponding to each of said two or more domains defined by said domain definition module, said domain routing information including a destination network address to which a packet is sent, a next-hop gateway address to which said packet is relayed, an output interface identifier for identifying the interface module to which said packet is output, and said domain identifier defined in said domain definition module for identifying the correspondence between said domain routing information and each of said two or more domains defined by said domain definition module ~~pieces of routing information each indicating a relay destination of~~

~~communication data in a way that separates the routing information for every domain; and~~

a relay control unit for controlling relay of the communication data, wherein said relay control unit controls the relay of the communication data with reference to said domain routing information storage module corresponding to the domain concerned in the case of a relay within said same domain, judges whether communication between the domains is permitted or not for the relay in accordance with definitions in said parameters associated with said inter-domain communication definition module in the case of a relay between the domains different from each other, and relay relays between the domains different from each other if communication is judged to be permitted.

2. (original) A communication data relay system according to claim 1, further comprising a destination address search module for the relay destination domain, wherein if the relay source domain does not have routing information to the relay destination domain, said destination address search module searches a destination address to the relay destination domain in response to a request from a source communication device within the relay source domain, and notifies said source communication device of a relay address within the relay source domain that corresponds to the destination address, and said relay control unit relays the communication data addressed to the relay address to the destination address in the relay destination domain.

3. (original) A communication data relay system according to claim 1, further comprising a routing control information storage module to the domain to which a communication data processing device for processing the communication data is connected, wherein said relay

control unit, when controlling the relay of the communication data, causes said communication data processing device to process the communication data, and relays the thus processed communication data.